

Some Responses to the Horrid Reality of Cutbacks and Tuition Increases

Advanced Education Minister Dave Russell shared the platform with Gordin Kaplan, Vice-President (Research), and Mike Hunter, Students' Union Vice-President (External Affairs) at an "education forum" sponsored by the Students' Union's Anti-Cutbacks Team last week. Panel moderator was Mel Hurtig.

Much speech was uttered, both on the platform and from the floor. What follows is a summary of the views expressed.

Mr. Russell. We are committed to not increasing the long-term debt so that future generations are not burdened with interest and repayments. We are equally committed to maintaining an excellent post-secondary education system. Our priorities are services to people, with education at the top of the list. I hope to keep up research funding, much of which comes from special sources.

Our plan calls for a programmed reduction in expenditures combined with a programmed increase in revenues. Even with the 3 percent cut in funding and with increased tuition fees, Alberta is still going to maintain its position as having the highest level of funding per capita and the second lowest level of tuition fees. A \$100 million scholarship trust fund has been established. We have made available other financial help to students, including special funding to provide work opportunities, especially during the summer.

Dr. Kaplan. I am behind the government in their wish to face up to the deficit. No part of society should be exempt from sacrifices. But diversification of our economy

is important. We must create a research infrastructure that will make us first class, and to do that we must be able to offer inducements to get the best people in the world in their fields. If there are cuts over a period of years, this will no longer be an attractive University to scholars from overseas and other parts of Canada. It is essential that we have outstanding universities with outstanding professors and attract the best students in Canada. How can this be done in times of

restraint? Nevertheless, it is essential.

Mr. Hunter. Cutbacks in funding mean an increase in class size. That's processing, not education, and we won't be competitive in the job market. Education must not become elitist. It must be available to those with ability, not only those with money. The province should continue funding education without cutbacks at any level. (*A few cries of "Get real," from his audience.*) The Students' Union calls for zero tuition increase.

Students. About 150 students

showed up to listen and protest. That's approximately .6 percent of the full-time student body.

Apathy?

"Yes," according to a couple of students present, "but Albertans are apathetic anyway."

"Not apathy. Good sense," said other students, not present but interviewed later. "The U. of A. has the lowest tuition fees of any English-speaking university in Canada. Cut out a couple or three visits to RATT in the year, and you've probably got the money." □

FOLIO

University of Alberta

22 January 1987



President Horowitz was on hand Saturday, 17 January, to present the University of Alberta Debating Cup to the first place finishers in the Junior Debate Category at the Invitational Debate Tournament held at W.D. Cutts Community School in St. Albert. Principal, Marlene Russell, (far left) congratulates Caroline van Noordenne and Susan Paterson, both of Strathcona Christian Academy in Sherwood Park. The Senate-sponsored Cup will be presented annually at the Invitational Tournament.

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- Board of Governors
- Gordon Robertson visiting Canadian Studies
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Board of Governors

A meeting of this University's Board of Governors was convened on 16 January. Commenting on 1987-88's budgetary structure and the announced 3 percent cutback, President Horowitz said the actual reduction will exceed \$6 million. The decrease pertains to both the "hard" budget and the conditional budget which includes money for new programs.

The enrolment total has risen by 850 and there is no consideration for this in the budget, Dr. Horowitz said.

"The worst possible scenario was confirmed yesterday (15 January)—the implementation date is 1 April. We start the year with the need to fund three months of last year's academic staff agreement."

Dr. Horowitz also said there would be a "desperate search" throughout the budget to find areas where cuts could conceivably be made.

Advanced Education Minister Dave Russell was very gracious with his time and "there were no surprises" as regards the early operating budget information and the 9 January announcement by Premier Getty and Mr. Russell.

It will be six to eight weeks before budget proposals are presented to the Planning and Priorities Committee, Dr. Horowitz said.

In a manner reminiscent of a TV news anchorman announcing a late-breaking story, Dr. Horowitz disclosed that J. Gordin Kaplan, Professor of Biochemistry and Vice-President (Research), and Steve Hunka, Professor of Educational Psychology and Coordinator of Educational Research Services, have been appointed University Professors.

Referring to the 12 January opening of Rehabilitation Medicine's lecture theatre and trailer complex, the President said that when he's asked "Where do we excel?" he is quick to mention the Faculty of Rehabilitation Medicine "because everybody in Canada feels

that it's in a category by itself, right at the top."

There were kind words, too, for Wayne Field, a Mechanical Engineering student who was awarded the Star of Courage by Governor-General Jeanne Sauvé. Mr. Field rescued an infant from an apartment fire.

Educational Affairs Committee

The Board approved the committee's proposal for a Women's Studies Program in the Faculty of Arts. The program will consist of a 300-level introductory course in Women's Studies potentially available to all students on campus, a curriculum available to students in the Faculty of Arts' new four-year BA program who wish to take Women's Studies as a second subject, and an extended curriculum available to students in the BA program who wish to take Women's Studies as a major concentration.

The program's future hinges on "the availability of an appropriate level of funding"; total costs for the program's initial five-year period are estimated to be \$712,595 (operating) and \$84,600 (capital).

P.W. Milnethorp, Chairman of the Educational Affairs Committee, announced the reappointment of two department chairmen and the appointment of a third. Donald Fenna and Clarke Hazlett will return to the chairmanship of the Departments of Applied Sciences in Medicine and Health Services Administration and Community Health, respectively. Dr. Fenna's term of office is three years; Dr. Hazlett's is a five-year term. H.A. Quinney will head the Department of Physical Education and Sport Studies for five years.

The appointments are effective 1 July of this year.

Building Committee

The committee has approved the University Collections Program Study and the Report of University

Collections and ad hoc Collections Centre Building Committee. "No determination as to site or as to inclusion or exclusion of various components of the University's Collections has yet been made," Committee Chairman J. A. Scott said.

John Schlosser, Chairman of the Board, said it was his understanding that there are about 17.5 million artifacts on campus (value: \$60 to \$70 million).

Mr. Scott reported that the Building Committee approved a request from the City of Edmonton to name the proposed L.R.T. station on campus "University Station." Vice-President (Administration) Allan Warrack hastened to remind Board members that the current L.R.T. budget is to the North Saskatchewan River, not across it.

Stuart Olson Construction Ltd. has been awarded the contract to renovate HUB Mall. Renovations to the 420 suites will take about two years to complete.

In the afternoon, the Board toured the Chilled Water Plant, the Heating Plant and the adjacent services corridor.□

Chernobyl Study Out in New York

The first book-length study of the Chernobyl nuclear disaster will be published in the United States at month's end, says its author David Marples, of the Canadian Institute of Ukrainian Studies (CIUS) here.

Chernobyl and Nuclear Power in the USSR, to be released by St. Martin's Press in New York on 28 January, grew out of a 1985 article written by the Soviet specialist when he was with Radio Liberty in Munich.

Concerned at the pace of construction and lack of sufficiently-trained power plant staff in the Ukraine, Dr. Marples predicted a nuclear disaster, six months before it happened.

This month, he's been on a speaking tour of Michigan, Columbia, Pennsylvania and Rutgers universities. He's in Toronto 2 through 4 February to launch the Canadian edition, published by CIUS in association with the Macmillan Press of London.□

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An Evening for Margaret Laurence

To honor one of Canada's most gifted novelists, the Department of English will host an evening for Margaret Laurence. Writers from the University community, including Douglas Barbour, Henry Kreisel, Caterina Lo Verso, Sara Stambaugh, Ray Smith and Rudy

Wiebe will offer personal tributes and readings from Laurence's work.

An Evening for Margaret Laurence will take place Wednesday, 28 January, at 7:30 p.m. in the Heritage Lounge, Athabasca Hall.□

Research: How to Get the Story Out

In these hard times, lers-of-the-purse-strings have been telling scientists loudly and clearly that if basic research is to be adequately funded, the public (which ultimately provides the money) must understand the importance of that research.

For scientists, the problem is, of course, how to get information about their work out to the public, so that it's easy for the non-scientist to understand, as well as being accurately presented.

At our University, "Research Report", published by the Office of Public Affairs (OPA), aims to do exactly that.

The four-page "Research Report" appears six times a year. It carries brief stories on research at our University, written by OPA staff members who have interviewed the researchers (and checked the copy with them before going to press). It is intended primarily to provide the media and freelance writers with features and story leads on scientific research being carried out by our faculty and graduate students, with the

objective of keeping the public informed about scientific research at the University of Alberta. Copies are mailed to print and broadcast media across Canada and to selected publications in the U.S.. Reporters then expand the stories by contacting researchers for interviews in greater depth.

OPA's press clippings and contact files show that leads from "Research Report" are regularly followed up by the media. To improve coverage still further, OPA would be glad to hear from researchers interested in the possibility of "Research Report" carrying a story on their work. For more information, "Research Report", Office of Public Affairs, 423 Athabasca Hall, 432-2325. □

This Study Watches Your Step for You

Please help me, I'm falling.

— Popular song.

Andy Harrell wants to know what makes us fall down.

"We're really interested in floors, how their appearance affects our gait, and the speed at which we walk," says the Sociology professor.

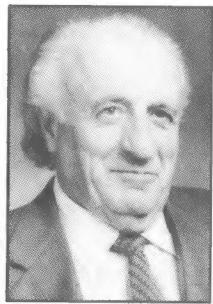
He's travelled to Sapporo, Japan, to test slippery sidewalks and buildings. In Edmonton, he's examined slippery floors both on and off campus.

He admits you have "to wait a long time" to catch sight of someone actually falling down, on a slippery floor. "That's why things go so slowly," he says, of his research, initially funded by the province's Occupational Health and Safety Department, and now supported by private enterprise. □

Our Mistake

In last week's "Activities" column, we erroneously reported that E. Brian Titley was a sessional instructor in Educational Foundations. He is in fact an assistant professor. □

Activities



Jake Superstein:
40 years of community service.

Jake Superstein was named a Member of the Order of Canada on 17 January. The Edmonton businessman and member of the University's Board of Governors was honored for "selfless dedication to his community" ... Amedeo P. Giorgi, Director of Research, Saybrook Institute, San Francisco, will visit the Center for Advanced Study in Theoretical Psychology, 9 to 20 February, on the Distinguished Visiting Speaker Program

... A.S. Knowler, Comptroller, has been awarded a certificate of recognition for 10 years of dedicated service as an accounting teacher by the Certified General Accountants' Society of Alberta.

Distinguished Public Servant to Visit Canadian Studies

A gentleman who has long occupied a ringside seat in the Canadian political arena will visit Canadian Studies next week.

Gordon Robertson, described by *The Canadian Encyclopedia* as "the most influential public servant of his day," will speak on four separate occasions.

The former Deputy Minister of Northern Affairs and Natural Resources will give a public lecture on "Political Development for the Northern Future" (28 January, 8 p.m., W-1 Tory Building). His schedule also calls for an informal seminar on the Institute for Research on Public Policy and the research and publishing opportunities it offers (27 January,

3:30 p.m., 10-4 Tory Building) and talks at a Master of Public Management Symposium and a Canadian Studies course on the North. His topic for the symposium (28 January, 3 p.m., 4-16 Business Building) is "Contemporary Challenges in Federal-Provincial Relations." The Canadian Studies' class (29 January, 3:30 p.m., 2-12 Humanities Centre) will hear the visitor's views on "Canada and the Arctic World."

After serving in External Affairs and the Office of the Prime Minister, Mr. Robertson was Deputy Minister of Northern Affairs and Natural Resources and Commissioner of the Northwest Territories from 1953 to 1963. As

Clerk of the Privy Council and Cabinet Secretary from 1963 to 1975, Secretary to the Cabinet for federal-provincial relations from 1975 to 1979 and thereafter as a participant in the process leading to the patriation of Canada's constitution, he has had a hand in many of the decisions which define public policy in Canada today, says Gurston Dacks, Chairman of the Canadian Studies Committee.

Mr. Robertson continues to observe developments in Canadian public administration, federal-provincial relations and the North from his vantage point as Fellow-in-Residence of the Institute for Research in Public Policy. □

Nominations Invited for Haultain Prize

The Alberta Heritage Scholarship Fund invites nominations for the 1987 Sir Frederick Haultain Prize. Three prizes of \$25,000 are awarded each year to honor Albertans who have excelled in the arts, sciences or humanities.

The three categories for nomination are: fine, applied or performing arts; social or physical sciences; and education or the humanities. Nominations should be submitted by individuals familiar with the candidate's work and achievements. Nomination forms can be obtained from the Alberta

Heritage Scholarship Fund and must be received at their office in Edmonton by 1 March 1987.

Henry Kreisel (Comparative Literature) was a 1986 recipient for the arts category. The other two prize winners were Menno Boldt (Sciences) for his contributions to the study and prevention of suicide and Audren Morrice (Education) for her dedication as a volunteer and her accomplishments in the development of training programs for brain-injured young Albertans. □



Henry Kreisel

Dressing for Independence

Clothes for people with physical disabilities are designed to give independence.



Two-piece wrapped gown.

People with physical disabilities want clothes that are easy to put on and take off. That's even more important to them than having clothes that are comfortable, according to Anne Kernaleguen, clothing and textiles expert at the University of Alberta.

Kernaleguen should know. The second printing of her unique book, *Clothing Designs for the Handicapped* (University of Alberta Press) is well on its way to selling out. It has been translated into Japanese, and partially pirated in German. Plans for a revised edition are already in the works.

According to Kernaleguen, independence, comfort, and "looking like everyone else" are the three top-ranked qualities that people with special needs want in their clothes. (In this group, Kernaleguen includes the elderly, the incontinent, the blind, and the obese—as well as the more obvious disabled who are wheelchair-bound or on crutches.)

Her approach is "adapt and modify". Get regular, store-bought clothing, she advises. Then add—as inconspicuously as possible—features or modifications.

Her book has easy-to-follow directions on how to alter ready-to-wear clothes. She also gives patterns for making garments

from scratch, and points out a number of ready-made brand-n paper patterns that could be used.

The book is geared to the average home sewer who can follow directions and work a sewing machine, and has plentiful illustrations.

The new edition (due in early 1988) will have a number of entirely new sections, including clothing designs for the disabled athlete; for fitness for the able-bodied—many people who'd like to exercise don't have perfect figures, and find ordinary exercise clothes uncomfortable; and for safety—for people in particular occupations, as well as for the elderly.*□

Skating Backwards Through Time

They'll be turning back the skating clock Sunday, 25 January, at the Victoria Park Oval, for an afternoon of family fun on the ice.

The Hon. Helen Hunley, Alberta's Lieutenant-Governor, will be there to lead off the skaters at the Fourth Annual Old Time Skating Party (1 to 4 p.m.).

"We're going back to the days when there was little ice hockey, and hardly any figure skating around here," explains Art Burgess, Co-ordinator of Campus Fitness and Lifestyle.

But was there ever life before hockey?

"Men and women used to skate side-by-side, holding hands," confides Burgess.

Sunday, at the Victoria Oval, they'll be dancing on their skates. There will be a wipeout event for children, and a national precision drill team will show something you'll never see on television: how to skate figures.

The annual event obviously cuts a lot of ice with the Faculty of Physical Education and Recreation—both the Department of Athletics and Campus Recreation lend support and Dean Gerry Glassford acts as host.□

Cab, Madam? Or Will You Go By Bus?

You may not be fully aware why you choose one way over another to get across the city. But it's important for urban transportation planners to understand how travel choices are made.

A mathematical model of travel "choices" developed by Civil Engineering Professor, Stan Teply, and colleague, Doug Hunt, can help transportation planners decode how people use a city's transportation system.

According to Teply—an internationally-recognized transportation expert—people are as much part of a city's transportation system as street layout, traffic signals, road signs, and vehicles. And cities would be pleasanter places to live in if planners understood more about how people choose to use that system, and how they are likely to adjust to changes in it.

Teply has identified and ranked seven levels of choice that people

go through (consciously or unconsciously) in deciding how to get across the city to their workplace, or where to go to do their shopping, or for entertainment. Choices are associated with such things as travel time, cost (gas, parking, car expenses vs. bus, subway and cab fares); comfort; habit; fear of the unknown; security (concerns for safety in certain places and on certain kinds of transport at particular times of day); and people's personal values.

The simple choice when traffic is light will be for either the fastest or the pleasantest route by the most convenient means. If the traffic network is well used or over used, choosing becomes more complicated. And when a number of factors are weighed against each other, the end choice is sometimes not what you would expect.

Using the "hierarchy of choices" model, urban transportation planners can better anticipate user decisions.

Take Edmonton's "Project Uni",

for instance. When planners reorganized traffic flow over the four bridges connecting the city's north and south sides to get more balanced traffic flows, they used this model with outstanding success to anticipate changes in user patterns. Only a couple of days after major route alterations were introduced, traffic was flowing easily—and without the blockages that had been experienced before.

That is why it's necessary to understand how choices are made, says Teply. Then it becomes possible to predict future demands, and keep the system better balanced by designing into it elements which take into account human trade-offs (such as less inconvenience for higher cost; less cost for more inconvenience).*□

* Reprinted from "Research Report", a publication produced six times a year by the Office of Public Affairs to provide media and freelance writers across Canada and in the U.S. with story leads on research at the University of Alberta.



Burns Night Helps Scots Winter Well

It has frequently been remarked that sensible those ever-canny Scots are to have arranged to celebrate their three major religious festivals in the heart of winter when spirits would otherwise be at rather a low ebb. Further subtlety is displayed in the careful planning by which the three festivals are equally spaced, one at the end of each of the darkest and coldest months—St. Andrew's Night on 30 November, Hogmanay on 31 December and Burns Night on 25 January. And it also is revealing of the true nature of the Scots that the climax of the series is the celebration of the memory of a ploughman poet who is treasured by all the world as the great poet of the human heart.

Roberts Burns lived a short and, in modern terms, a brutal life from 25 January 1759 until 21 July 1796, but during that brief period he wrote the poems and songs of his

native Scotland and of the common man everywhere. His themes were laughter and love, simplicity and dignity, universal brotherhood and independence, pride and worth; and Burns embodied these themes in verse whose inspiration and expression are unmistakably Scottish but whose appeal remains universal. Such poems as *To A Mouse, For a' That and a' That, Afton Water, Tam o' Shanter, Scots Wha Hae, O My Luve's Like a Red, Red Rose, Bonie Wee Thing, Ae Fond Kiss, and Auld Lang Syne* bear warm testimony in favor of Burn's claim to the title of the world's poet of the heart's affections.

On Saturday, 24 January, the Faculty Club will resound to the skirl of the pipes and the clink of glasses as yet another haggis is ritually slaughtered by that veteran survivor of previous Burns Suppers, Ray Grant of Aberdeen and our Department of English. His toast to the Immortal Memory of Scotland's national poet will be set in a festive context of Scottish music, Scottish songs, piping, toasts to the haggis and the lassies, and displays of Highland dancing. Be sure to be present to enjoy the celebration of the memory of the poet of the laughter of love. □

F's 'Training' His Students in Canada

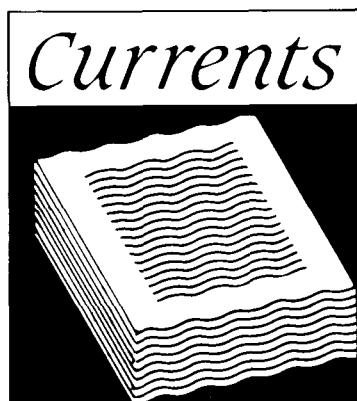
Seven U.S. students and their Canadian Studies mentor stopped off in Edmonton late last week, as part of a cross-Canada study tour.

"We're here as part of a class called The West in Confederation," explained Joseph Jockel, Director of Canadian Studies at St. Lawrence University in upper New York State, describing it as "an eclectic group: six males, one female, including students of history, economics and chemistry."

His coast-to-coast classroom's schedule includes stops in Winnipeg, Saskatoon and Vancouver for interviews with university, government and media, exploring the issues of "free" trade and defence.

On their two-day stay in Edmonton, Dr. Jockel and his students met on campus with Doug Cunn, Chairman of Graduate Studies in History, and Gurston Dacks, Chairman of the Canadian Studies Program.

Dr. Jockel, a specialist in Canada's role in North American defence, was born in New Jersey and educated at St. Lawrence University and the University of Toronto. □



General Faculties Council

GFC's next meeting is scheduled for Monday, 26 January, at 2 p.m. in the University Hall Council Chamber.

1. Approval of the Agenda
2. Approval of the Minutes of 24 November 1986
3. Question Period
4. New Members of GFC 1987-88
5. Executive Committee Reports
 - 5.1 Executive Committee Minutes of 1 December 1986
 - 5.2 Executive Committee Minutes of 12 January 1987
 - 5.3 Executive Committee Minutes of 19 January 1987
6. Reports of the Board of Governors
7. Report of the Nominating Committee
- New Business
8. GFC Conference Funds Committee: Annual Report 1985-86
9. GFC Committee on Admissions and Transfer (CAT): Proposed Changes to Terms of Reference
10. Canadian Union College Affiliation: Recommendation from CAT for One-Year Extension
11. Non-Thesis Master's Programs: Delegations Concerning Residence Requirements AND Delegations Concerning Approval/Discontinuance
12. General Appeals Committee (GAC): Annual Report 1985-86
13. Report on the Preparation of the 1986-87 Operating Budget
14. Operating Budget Principles and Policies 1987-88: Recommendation from Planning and Priorities Committee
15. Other Business

Get Stronger for Free

A 11-week strength training study has begun in the Faculty of Physical Education and Recreation. Male volunteers who have not participated in a strength conditioning program before and are interested in strengthening their muscles should phone Bursari at 438-6104 (home) after 7 p.m. or (office) 432-3890 for appointment. Participation is on a first-come first-served basis.

Communications Courses

This term, the Extension Faculty is presenting courses dealing with interpersonal communications in areas such as assertion training, conflict management, public speaking, and overcoming shyness.

For further information or a brochure, telephone 432-5069.

Parking Services' Booster Service

University parking permit holders have limited boosting service available to them. Boosting services will operate only when outside temperature readings reach -23C or colder. This service is only available to holders of valid parking permits. To request service, permit holders should telephone 432-5533.

Power Cycling for Plug-Ins

As an energy-saving measure, power to electrical plug-ins is under an electrical cycling program which runs on a half-hour rotation basis. Power begins cycling when temperature readings reach -10C or colder. When the temperature reaches -29C, power will be on full-time in all zones. This cycling program is in effect Monday through Friday from 8:30 a.m. to 3:30 p.m.

Further information from Parking Services, 432-3811.

Evening Parking on Campus

Parking is readily available on campus during evening hours, 4:30 to 10 p.m. Monday through Friday. A parking permit is required and can be obtained from Parking Services at a rate of \$10 per calendar month.

For occasional visitors, casual parking is available at a rate of \$2 per evening in any of eight different locations.

Folio

Display Advertising

Folio is the official news publication of the University of Alberta, published every Thursday throughout the year (except for July and August when it appears bi-weekly). It has a regular distribution of 9,000 of which 7,800 copies are circulated to teaching and support staff, to graduate students and to other interested people on campus. The remaining copies are sent to provincial and municipal government personnel, news outlets, and businesses and people off-campus.

Sizes and rates

The basic unit size is 27 aggregate lines x 23 picas (3 7/8" x 2"). The full page is divided into 10 such units, any combination of which is available at a cost of \$35 per unit (minimum 1 unit). Half page cost: \$175. One column cost \$87.50. There is a 15% discount for University departments. A 10% discount is offered for five or more consecutive insertions.

Other specifications

Half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is necessary; there is a charge of 30c per word for typesetting, and \$7.50 for adjustment of design work.

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Deadline for submission is 3 p.m. one week in advance of desired publication date. Acceptance of advertisements and positioning are at the discretion of the Editor.

For more information, telephone (403) 432-2325 and ask about *Folio* display advertising, or write to:

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Office of Public Affairs
423 Athabasca Hall
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Edmonton, Alberta T6G 2E8

CITL in Session

Twenty-six sessions on teaching will commence next week courtesy of the Committee for the Improvement of Teaching and Learning (CITL).

The series, which starts on 29 January and ends on 26 March, contains a number of new presentations and repeats others that have proven their worth.

The list of topics includes "Marking Strategies," "Graduate Student Research Supervision," "Strategies for Creating Fair Multiple-Choice Examinations," "Cheating and Plagiarism: Toward Restoring Trust," "Teaching Students from Another Culture," and "Connoisseurs of Teaching."

CITL's annual series again fosters a sense of community. Among the instructors are Sandy Campbell, Lea Starr and Margo Young, all of the Library; Lorna McCallum, Testing and Remediation; Gordon Fearn, Sociology; Dean Chia and Associate Dean S.H. Arnold of Graduate Studies and Research; Allen Vander Well, Student Counselling Services; Wilfred Allen, International Student Affairs; and Mary Mahoney-Robson, University Press.

The first session—"Competition versus Cooperation in the Classroom"—will take place 29 January, 3:30 to 5 p.m. in TB-W2 Tory. Other sessions will be advertised in the "Talks" section of *Folio* in the coming weeks.

Registration forms are available from the CITL office, 1-11 University Hall, telephone 432-2826. □

Talks

Physics

23 January, 2 p.m. Graham Hill, Dominion Astrophysical Observatory, Victoria, "Cross-Correlation Techniques—A Panacea for All Ills." V-121 Physics Building.

30 January, 2 p.m. J.M. Cameron, "The Constituents of Nuclei." V-121 Physics Building.

Colloquia on Systems Research

23 January, 3 p.m. Robert Rosen, I.W. Killam Professor of Physiology and Biophysics, Dalhousie University, "System Theory in Biology." 26 January, 3 p.m. Dr. Rosen, "System Theory in Technology." 28 January, 3 p.m. Dr. Rosen, "System Theory in the Human Sciences." 30 January, 3 p.m. Dr. Rosen, "System Theory in Modern Science." All lectures in CW-410 Biological Sciences Centre. A comprehensive collection of Dr. Rosen's

published works is available for reference in the Centre for Systems Research Reading Area, 1-81 Tory Building, Wednesdays from 10 a.m. to 1 p.m.

Zoology

23 January, 3:30 p.m. George V. Lauder Jr., Department of Anatomy, University of Chicago, "Feeding Dynamics in Lower Vertebrates: Case Studies in the Evolution of Animal Design." M-149 Biological Sciences Building.
30 January, 3:30 p.m. Colin G. Scanes, Department of Animal Science, Rutgers, New Brunswick, New Jersey, "Somatotrophins and Somatomedins in Birds." M-149 Biological Sciences Building.
6 February, 3:30 p.m. B.K. Mitchell, "Chemosensory basis of host-plant recognition: the Colorado potato beetle model." M-149 Biological Sciences Centre.

Slavic and East European Studies

26 January, 3:30 p.m. Nicholas G. Zekulin, Department of Germanic and Slavic Studies, University of Calgary, "Contemporary Soviet Women's Literature." 776 General Services Building.
29 January, 3:30 p.m. Stanislaw Barańczak, Alfred Jurzykowski Professor of Polish Language and Literature, Harvard University, "Polish Poetry in the 1980's." 776 General Services Building.
30 January, 11 a.m. Stanislaw Barańczak, "Literature of Dissent in Post-1944 Poland." 776 General Services Building.
2 February, 3 p.m. Gerard Magennis, "Nysa and Emmaus. Reflections on Vyacheslav Ivanov's Religious Ambiguity." 776 General Services Building.

English (Edmund Kemper Broadus Lectures)

26 January, 4 p.m. B. Nielsen de Luna, "More Grist for the Shakespearean Mill." 27 January, 4:30 p.m. Dr. de Luna, "The Bard's Birthright Reconsidered." 29 January, 4 p.m. Dr. de Luna, "A Tumultuous Privacy." 3 February, 4:30 p.m. Dr. de Luna, "The 'Unlick'd Bear-Whelp' of Stratford." 5 February, 4 p.m. Dr. de Luna, "Marshall's Depiction of the 'Fatal' 'Merry Meeting.'" The lectures will be presented in L-1 Humanities Centre under the theme "Some Fresh Glimpses of the Mortal Shakespeare." Slides will be shown at each lecture.

Romance Languages

27 January, 4 p.m. Giuseppe Mazzotta, Yale University, "The Medieval Encyclopedia." L-4 Humanities Centre.
28 January, 4 p.m. Professor Mazzotta, "The University of Paris in the 13th C." L-4 Humanities Centre.
30 January, 4 p.m. Professor Mazzotta, "The Arts of Discourse in Dante." L-4 Humanities Centre.
2 February, 4 p.m. Professor Mazzotta, "Dante's Aesthetic." L-4 Humanities Centre.
4 February, 4 p.m. Professor Mazzotta, "The Birth of Humanism - Petrarch." L-4 Humanities Centre.
6 February, 4 p.m. Professor Mazzotta, "Vico's Encyclopedia - The New Science." L-4 Humanities Centre.

Sociology

28 January, noon. Andy Harrell, "The Experimental Social Psychological Study of Slippery Floors." 5-15 Tory Building.

4 February, noon. Karol Krótki, "Counting the Impaired, the Disabled, and the Handicapped in the World and in Canada." 5-15 Tory Building.

Forest Science

28 January, noon. Ian G.W. Corns, Research Scientist, Canadian Forestry Service, Northern Forestry Centre, "Forest Ecosystems of West-Central Alberta Development of a Field Guide." 4-1 Mechanical Engineering Building.

Centre for Gerontology

28 January, noon. S. Sharir, "Abolishing Mandatory Retirement, the Economic Implications." TB-W2 Tory Breezeway.

Computing Science

28 January, 3:30 p.m. Hausi A. Muller, Department of Computer Science, University of Victoria, "Rigi—A System for Programming-in-the-large." 619 General Services Building.

Soil Science

29 January, 12:30 p.m. Bill McGregor, Senior Plant Science Representative, Elanco Division, Eli Lilly Canada Inc., "Opportunities in Agricultural Research." 2-36 Earth Sciences Building.

Limnology and Fisheries Discussion Group

29 January, 12:30 p.m. Randy Shaw, "Seepage Patterns in Alberta Lakes." P-319N Biological Sciences Centre.
5 February, 12:30 p.m. Line Rochefort, "Sources of Acidity in Peatland." P-319N Biological Sciences Centre.

Music

29 January, 3:30 p.m. Alexander Tumanov, "Sources and Origins of Old Russian Music." 2-34 Fine Arts Building.
5 February, 3:30 p.m. Regula Qureshi, "German and Italian Flagellant Songs: A Contextual Perspective." 2-34 Fine Arts Building.

Anatomy and Cell Biology

29 January, 4 p.m. Keith Crutcher, Associate Professor, School of Medicine, University of Utah, "Nerve Growth Factor and Axonal Growth in the Mature Mammalian Brain." 6-28 Medical Sciences Building.

Alberta Heritage Foundation for Medical Research

29 January, 4 p.m. Charles Rock, Associate Member, Department of Biochemistry, St. Jude's Children's Research Hospital, Memphis, Tennessee, "Regulation of Phosphatidylinositol-4,5 P₂ Phospholipase C." 2-31 Medical Sciences Building.

Entomology

29 January, 4 p.m. A. Sen, "Structure and Function of Palpi in the Colorado Potato Beetle, *Leptinotarsa decemlineata* (Say)." TB-W1 Tory Breezeway.

Boreal Institute for Northern Studies

30 January, noon. Lois Harwood, "Research on Bowhead Whales in the Beaufort Sea." M-137 Biological Sciences Centre.

History

30 January, 3:05 p.m. F.A. de Luna, "The Girondins Were Girondins After All." 2-58 Tory Building.

Home Economics

4 February, 7 p.m. Holly van Schoor, "Wedding Attire: Design Ideas From the Past." Registration fee \$20. 432-2528. B16 Home Economics Building.

Population Research Laboratory

9 February, 3 p.m. Harvey Krahm, Graham Lowe and Timothy Hartnagel, "The Canadian Youth Employment Study: Choosing Between School and the Labour Force." TB-W2 Tory Breezeway.

Nursing

9 February, 4 p.m. Rozella Schlotfeldt, Professor and Dean Emeritus, Frances Payne Bolton School of Nursing, Case Western Reserve University, Cleveland, Ohio, "Imperatives for Advancing Nursing's Knowledge Base." 2F1-04 Mackenzie Health Sciences Centre. Funded by the Alberta Heritage Foundation for Medical Research.

The Arts

Readings by Canadian Writers

30 January, noon. Fred Wah, winner of the Governor General's Award for poetry (*Waiting for Saskatchewan*) last year. L-3 Humanities Centre.
12 February, 12:30 p.m. Paul de Barros, author of *Big Plans*. L-3 Humanities Centre. Sponsored by the Department of English, in cooperation with the Canada Council.

Ring House Gallery

Until 15 February. The Eighth Dalhousie Drawing Exhibition—44 works by 11 prominent artists from British Columbia, Alberta, Manitoba and Saskatchewan.

Music

All concerts take place in Convocation Hall.
23 January, 5 p.m. Student Recital—Marc Patsula, horn.
23 January, 8 p.m. Faculty Recital—Ron Nelsen, baritone, Diane Nelsen, soprano, and Alexandra Munn, piano.
26 January, 8 p.m. Visiting Artist Series—George Evelyn, bass-baritone.
27 January, 8 p.m. Senior Student Recital—Roxanne Zahara, saxophone.
6 February, 8 p.m. Opera Performance—works by Salieri and Mozart.
7 February, 8 p.m. Opera Performance—works by Salieri and Mozart.
10 February, 8 p.m. Student Recital—Corey Hamm, piano.

SUB Theatre

23 January, 8 p.m. "Short Circuit."
24 January, 8 p.m. "Ruthless People."
25 January, 8 p.m. The Warren Miller film, "Beyond the Edge." Tickets available at the door.
28 to 31 January. Med Show '87. Tickets: 432-6492.

Edmonton Film Society

26 January, 8 p.m. International Series—"The Official Story" (Argentina, 1985). TL-11 Tory Lecture Theatre.
9 February, 8 p.m. "Bix" (Canada, 1981). L-11 Tory Lecture Theatre.

Studio Theatre

29 January to 7 February. "Love for Love." 432-2495.

Théâtre Français d'Edmonton

30 January to 8 February. "Play... Molière!" 469-0829.

Edmonton Chamber Music Society

4 February, 8 p.m. New York String Trio. Admission by season membership, 433-8102. SUB Theatre.

Broadcasts

Radio

CKUA

24 January, 7 p.m. Music at the University of Alberta presents "Music for Band: Origins and Developments" (Part 1 of 2). Guest: Fordyce Pier.

31 January, 7 p.m. Music at the University of Alberta presents "Music for Band: Origins and Developments" (Part 2).

7 February, 7 p.m. Music at the University of Alberta presents "French Baroque Opera." Guest: Paul Rice.

CJSR-FM

Eclectic programming, including folk, jazz, new music, rock and U of A news and sports coverage. See *Airtight* magazine for full programming details. Send public service announcements to 224 SUB, 432-5244.

Sports

Track and Field

23 January, 6 p.m. Golden Bear Open. 24 January, 10 a.m. Golden Bear Open.

Volleyball

23 January, 6:30 p.m. Pandas vs. British Columbia. 23 January, 8 p.m. Bears vs. British Columbia. 24 January, 6:30 p.m. Pandas vs. Victoria. 24 January, 8 p.m. Bears vs. Victoria.

Gymnastics

23 January, 7 p.m. Alberta/UBC Dual Meet.

Basketball

30 January, 6:30 p.m. Pandas vs. Calgary. 30 January, 8 p.m. Bears vs. Calgary. 31 January, 6:30 p.m. Pandas vs. Lethbridge. 31 January, 8 p.m. Bears vs. Lethbridge.

Hockey

30 January, 7:30 p.m. Bears vs. Brandon. 31 January, 7:30 p.m. Bears vs. Brandon. 4 February, 7:30 p.m. Bears vs. Calgary.

Award Opportunities

The Terry Fox Humanitarian Award Program

Donor: Government of Canada. Where: Canadian universities or colleges. Level of study: Undergraduate. Field of study: Open. Value: \$3,000 annually. Number: About 40. Duration: Up to four years or until first degree is obtained. Conditions: Based on demonstration of the highest ideals and qualities of citizenship and humanitarian service while in pursuit of excellence in their academic, amateur sport, fitness health, community service and related endeavors. Candidates must be Canadian citizens or have applied for citizenship at the time of award.

consideration. *Closing date: 1 February 1987. Further information and application forms should be requested from: Student Awards Office, 252 Athabasca Hall, or Terry Fox Humanitarian Award Program, 711 151 Sparks Street, Ottawa, Ontario K1P 5E3.*

The Edmonton Consular Ball Scholarship in International Studies

Applications are invited from graduate students or third- and fourth-year honors students in the Departments of Political Science and History, and students in the Faculty of Law.

The award is for as much as \$2,000 to study any aspect of relations between nations, although preference will be given to studies involving the work of the United Nations and its agencies. Half of the above grant is meant to cover travel expenses.

Deadline for application and presentation of project proposal to the Director of Student Awards, 252 Athabasca Hall, is 27 February 1987.

Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

Executive Director, Association of Canadian Universities for Northern Studies

ACUNS is seeking an Executive Director whose appointment would commence on 1 July 1987. ACUNS is a dynamic, growing, association which now has 35 member universities from coast to coast. Through these members, it deals with hundreds of faculty and many thousands of students involved in Northern teaching and research. It deals, on behalf of this clientele, with governments and the private sector and universities abroad. It has recently organized a number of major conferences dealing with education, research, information systems and the North, and Arctic heritage. ACUNS also organized the National Student Conference on Northern Studies. Proceedings of these and other events are being published in book form. The Association also publishes an influential quarterly newsletter, *Northline/Point Nord*.

Through its Canadian Northern Studies Trust, ACUNS provides funding for students who live and work in the North. Its Northern Studentships, for example, are worth \$10,000 each.

The position requires ability to work with Canadian universities, industry, government agencies, native groups and others interested in northern education and research. Preference will be given to candidates with a demonstrated knowledge of education and research in the North. Management experience, preferably in a capacity which would provide familiarity with the agencies and groups involved in northern studies, is desirable. Bilingualism is an asset.

ACUNS is willing to consider a variety of arrangements with universities or other agencies to attract the right person to this challenging position. Remuneration for this term appointment at university scale. Submit resumes or enquiries by 13 March 1987

to: Marc-Adélar Tremblay, President, Association of Canadian Universities for Northern Studies, 130 Albert Street, Suite 1915, Ottawa, Ontario K1P 5G4.

Director, Student Counselling Services

Applications are invited for the position of Director of Student Counselling Services. In addition to being responsible for all budgetary and administrative aspects of the operation of Student Counselling Services, the Director will be expected to provide leadership to staff of experienced, professional counsellors, to maintain an active role in counselling students, and to supervise counselling trainees and interns.

A joint appointment with another department may be considered.

Further information may be obtained by contacting the Office of the Dean of Student Services (432-2968). Applications should be sent no later than 27 February 1987 to: Dr. P.J. Miller, Dean of Student Services, 300 Athabasca Hall.

Applications should be accompanied by a detailed resume of qualifications and experience, and the names of three references.

The appointment will take effect 1 July 1987.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 16 January 1987. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the positions in PSSR.

Clerk Typist II, (Trust/Part-time), Physical Therapy, (\$701-\$870)
Medical Steno (Trust), Pediatrics, (\$1,522-\$1,945)
Medical Steno, Psychiatry, (\$1,522-\$1,945)

Medical Steno, Medicine, (\$1,522-\$1,945)
Administrative Clerk (Accommodation Co-ordinator), Housing and Food Services, (\$1,522-\$1,945)
Departmental/Executive Secretary, Centre for Co-operative Education, (\$1,716-\$2,208)

Technician II (Split funded), Oral Biology, (\$1,791-\$2,304)
Engineering Technologist II, Physical Plant—Plant Operations, (\$1,864-\$2,407)
Technologist I/III (Trust), Pharmacology, (\$1,945-\$2,992)

For vacant Library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.

Advertisements

Accommodations available

Sale - Old Riverbend. Main-floor den, family room with brick fireplace, 2 1/2 baths, appliances. Double garage. Direct bus to University. Liz Crockford, Spencer Realty, 436-5250. Open 2-4 p.m. 25 January. Rent - Three, large rooms. Kitchenette, three-piece bathroom. Separate entrance, ground level. Country setting. Fifteen minutes from University. 434-6022.

Sale - Executive, 1 3/4-storey home, Belgravia. Four bedrooms, two baths, family room, fireplace, partially developed basement. Completely renovated. Many extras. \$166,000 firm. 436-0455.

Sale - Architecturally-designed, 1,200 sq. ft. bungalow. Minutes from campus. 9,800 sq. ft. lot facing park. Must see. Ronn Bence, Royal LePage, 438-5100.

For sale - Arch-rib cedar home on 6.87 acres near Devon. Fenced, spruce, birch. Three balconies, patio doors, large arch-rib workshop. \$84,500. Ronn Bence, Royal LePage, 438-5100. For sale - Immaculate, two-bedroom condominium. Two baths, balcony, across from campus. Five appliances. Ronn Bence, Royal LePage, 438-5100.

PART-TIME INSTRUCTORS FOR Computing Services Courses

Computing Services offers a noncredit training program on the use of MTS, TEXTFORM and microcomputers.

The department has openings for instructors. Anyone with experience as a user of MTS, the IBM PC including Lotus 1-2-3 and MultiMate Advantage is invited to apply. Also required is the ability to relate well with new users and to explain the basics in clear and simple fashion.

Applicants should be available to teach some daytime and evening sessions.

The salary for these teaching positions is \$15.87 per hour.

Contact

Carey Castillo,
Training Coordinator, 432-2462,
352 General Services Building

Rent - New, fully furnished/equipped, four-bedroom, two bath, vacation home in Canmore. Daily (two day minimum) or weekly rental to family groups only. Damage deposit. Information: Dr. Overton, 432-6344, 481-3694.

Sale - Two-bedroom, University condo. Excellent location. \$64,500. Call Judi Cook, Canada Trust Realtor. 437-2110. Sale - By owner. Two-storey, brick, three-bedroom house. South Garneau. Exceptional condition, sunny heated porch, hardwood floors, fireplace. Attached garage. 1,500' excluding porch. 439-0521 after 6 p.m.

Accommodations wanted

Wanted to rent: House close to University, 4-5 bedrooms. One year from July 1987. 432-6501 bus., 431-1026 res.

Automobiles and others

1975 Dodge half ton, 96,000 miles. Automatic V8, stereo cassette, dual tanks, good tires. \$1,000. 438-0376.

Goods for sale

Cash paid for appliances, 432-0272. New electronic typewriters, including computer interface, \$625. Used correcting IBM Selectric II, \$399. Open 7 days/week, weekday evenings. Mark 9, HUB Mall. 432-7936.

Visit exotic China, 2-21 June.

\$3,500/person, double occupancy, all inclusive. Don Pimm, 433-8322.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment

costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.

Typing Associates word processing. \$1.35 per double-spaced page. Shannon, 462-3825.

Professional typist—Word processing. Specializing in theses, dissertations, manuscripts. Gwen, 467-9064.

Part-time student with NAIT certificate in two-year chemical technology, plus a year laboratory experience, needs part-time work on campus. Call Shelina at 432-2335 (days) or 436-7226 (evenings).

Fascinating, exotic Turkey! Personally escorting six to ten eager travellers. May, July, September. Contact Golden Horn Tours, #611 10136 100 St. 429-1352.

Editing, research and writing services by MA (English), BComm. Manuscripts, reports, dissertations, correspondence. 434-8975.

Word processing, photocopying, typewriter sales/rental. Open 7 days/week, weekday evenings. Mark 9, HUB Mall. 432-7936.

City Secretarial Service, 432-0138. Thesis (word processed) \$18/hour. Electronic scanning \$3/page. Typing (double space/10 pitch) \$1.75/page.

Piano theory, harmony lessons. Beginners-adults. Western Board.

Robert Gariepy, 433-7238.

English as a Second Language.

Volunteer teachers and tutors needed at the Mennonite Centre for Newcomers. Can you spare one half-day a week? Will train. Contact Rosabel Fast, 424-7709.

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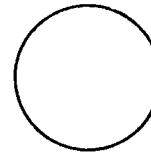
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Speaker: Dennis Blumenthal, *Chartered Accountant*.

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Impact of Canadian laws on estates of U.S. citizens; wills;
Canadian and U.S. implications of dual national status.
Speaker: Wilhelmina K. Tyler, *Barrister and Solicitor, U.S. Attorney*.

Location: University of Alberta Campus

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